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Enzyme Form	Substrate	Activity (nmoles/ug/min)	Std Dev	N	relative activity vs. WT hGALE
WT hGALE	UDP-Gal	50.11	18.6	49	100%
WT eGALE	UDP-Gal	40.18	18.52	16	80%
C307Y hGALE	UDP-Gal	59.78	23.31	21	119%
WT hGALE	UDP-GalNAc	37.71	11.93	30	100%
WT eGALE	UDP-GalNAc	0.005	0.003	12	0.01%
C307Y hGALE	UDP-GalNAc	0.87	0.65	18	2.30%

FIGURE 1

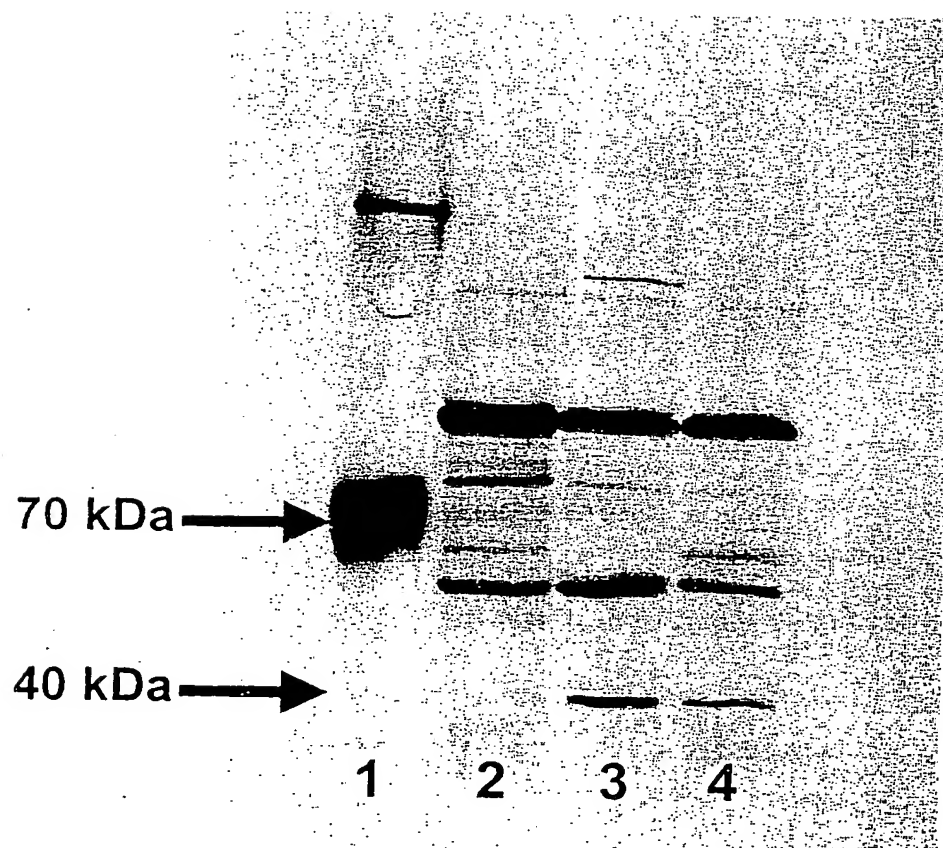
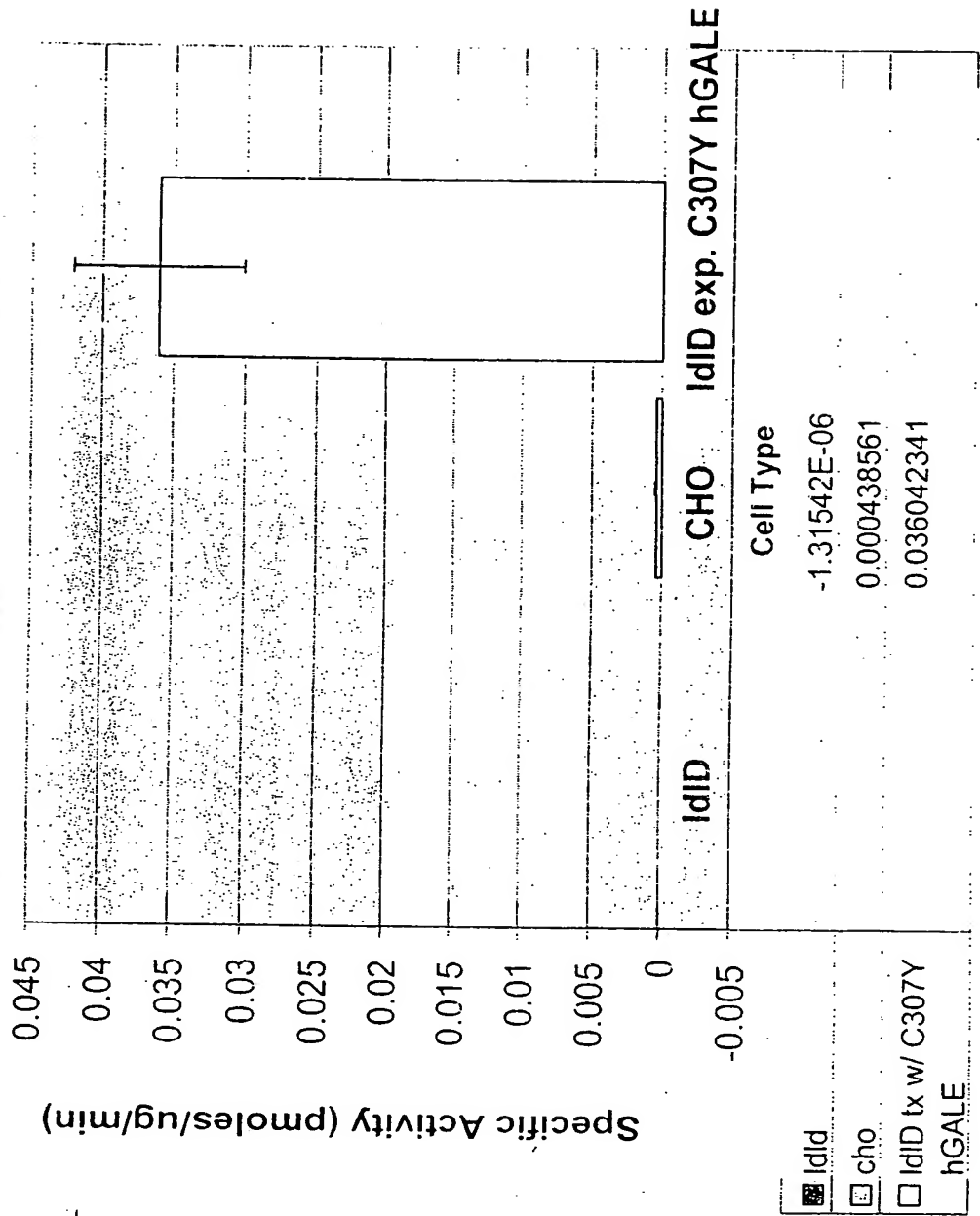


FIGURE 2

FIGURE 3

UDP-Gal GALE Activity in IdID cells transfected with C307Y hGALE



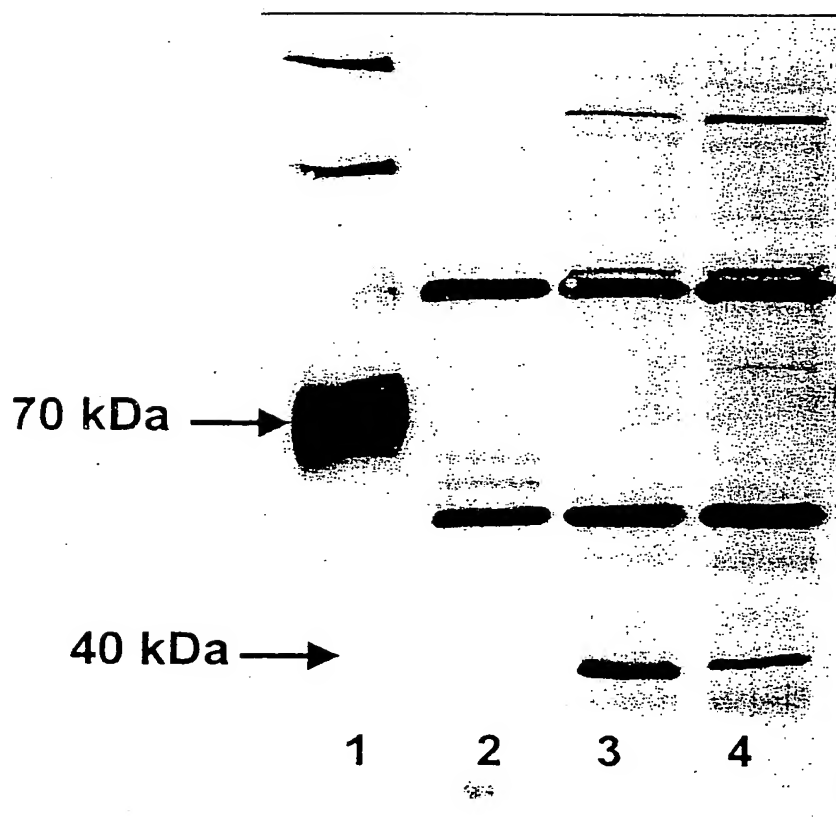


FIGURE 4

UDP-Gal GALE Activity in IdlD cells expressing WT *E. coli* GALE

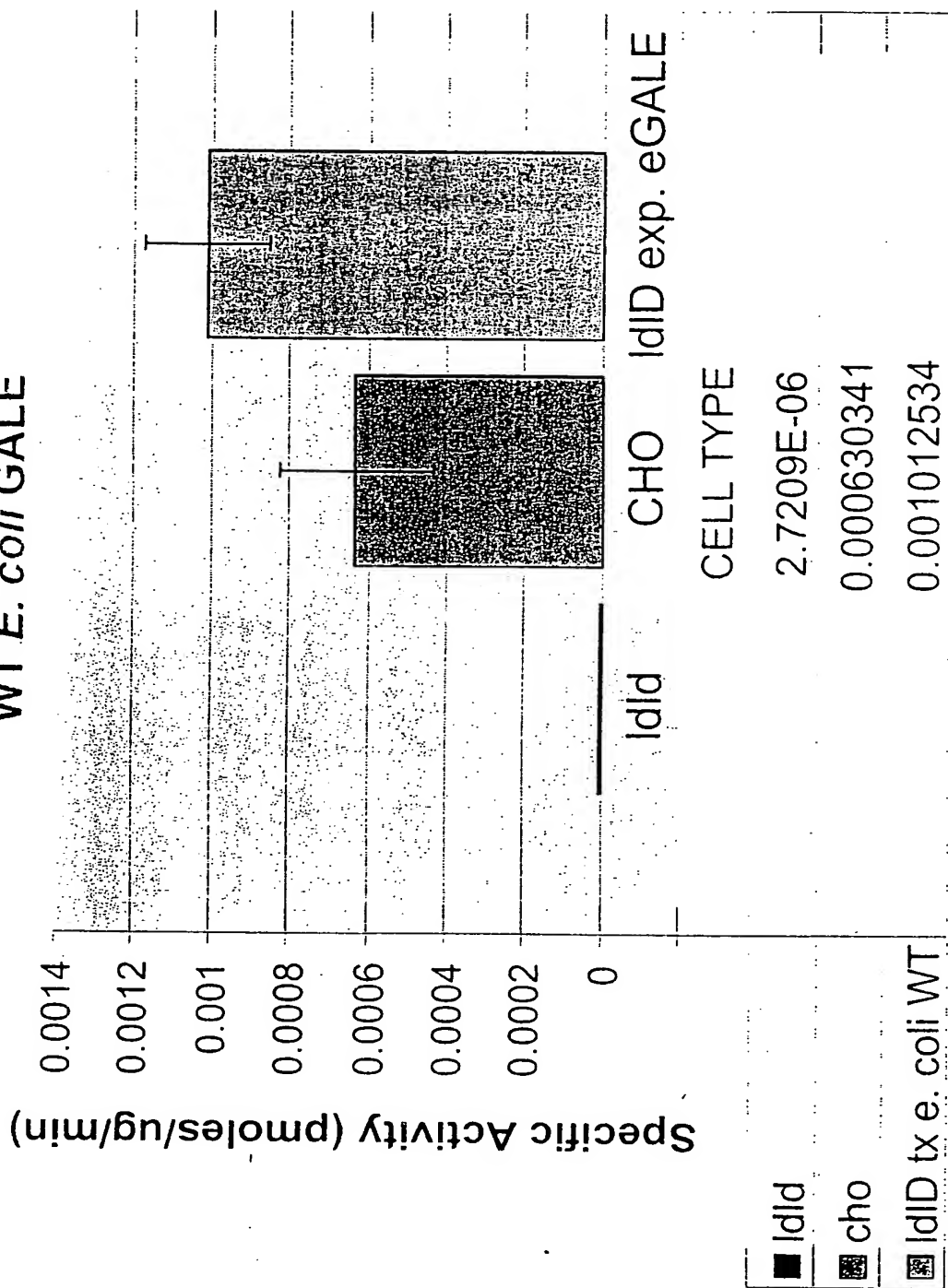


FIGURE 5

FIGURE 6

